

FEDERAL & STATE AIR QUALITY STANDARDS

POLLUTANT	TIME PERIOD	FEDERAL (NAAQS)	MONTANA (MAAQS)	STANDARD TYPE
Carbon Monoxide	Hourly Average 8-Hour Average	35 ppm ¹ 9 ppm ¹	23 ppm ^b 9 ppm ^b	Primary Primary
Fluoride in Forage	Monthly Average Grazing Season	-- --	50 µg/g ^c 35 µg/g ^c	-- --
Hydrogen Sulfide	Hourly Average	--	0.05 ppm ^b	--
Lead	90-Day Average Quarterly Average	-- 1.5 µg/m ^{3c}	1.5 µg/m ^{3c} --	-- Prim. & Sec.
Nitrogen Dioxide	Hourly Average Annual Average	-- 0.053 ppm ^{3d}	0.30 ppm ^b 0.05 ppm ^e	-- Prim. & Sec.
Ozone	Hourly Average 8-Hour Average	0.12 ppm ^f 0.08 ppm ^g	0.10 ppm ^b --	Prim. & Sec. Prim. & Sec.
PM -10	24-Hour Average Annual Average	150 µg/m ^{3k} 50 µg/m ^{3l}	150 µg/m ^{3k} 50 µg/m ^{3l}	Prim. & Sec. Prim. & Sec.
PM-2.5	24-Hour Average Annual Average	65 µg/m ^{3m} 15 µg/m ³ⁿ	-- --	Prim. & Sec. Prim. & Sec.
Settleable Particulate	30-Day Average	--	10 g/m ^{2c}	--
Sulfur Dioxide	Hourly Average 3-Hour Average 24-Hour Average Annual Average	-- 0.50 ppm ^a 0.14 ppm ^{a,i} 0.03 ppm ^d	0.50 ppm ^h -- 0.10 ppm ^{b,j} 0.02 ppm ^e	-- Secondary Primary Primary
Visibility	Annual Average	--	3 x 10 ⁻⁵ /m ^e	--

¹ Federal violation when exceeded more than once over any 12 consecutive months.

^a Federal violation when exceeded more than once per calendar year.

^b State violation when exceeded more than once over any 12 consecutive months.

^c Not to be exceeded (ever) for the averaging time period as described in the state and/or federal regulation.

^d Federal violation when the annual arithmetic mean concentration for a calendar year exceeds the standard.

^e State violation when the arithmetic average over any four consecutive quarters exceeds the standard.

^f Applies only to NA areas designated before the 8-hour standard was approved in July, 1997. Mt. has none.

^g Federal violation when 3-year average of the annual 4th-highest daily max. 8-hour concentration exceeds standard.

^h State violation when exceeded more than eighteen times in any 12 consecutive months.

ⁱ Federal standard is based upon a calendar day (midnight to midnight).

^j State standard is based upon 24-consecutive hours (rolling).

^k State and federal violation when more than one expected exceedance per calendar year, averaged over 3-years.

^l State and Federal violation when the 3-year average of the arithmetic means over a calendar year at each monitoring site exceed the standard.

^m Federal violation when 3-year average of the 98th percentile values at each monitoring site exceed the standard.

ⁿ Federal violation when 3-year average of the spatially averaged calendar year means exceed the standard.